

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for estimating a movement speed of a mobile unit in a mobile radio communication system, comprising:
 - (A) receiving a signal corresponding to a mobile unit transmitting signal;
 - (B) generating a first signal by using a first filter unit to filter said signal, said first filter unit having a first cut-off frequency;
 - (C) obtaining a first speed by estimating said movement speed based on said first signal;
 - (D) generating a second signal by using a second filter unit to filter said signal, said second filter unit having a second cut-off frequency, said second cut-off frequency being lower than said first cut-off frequency;
 - (E) obtaining a second speed by estimating said movement speed based on said second signal; ~~and~~
 - (F) selecting one of said first speed and said second speed to be said movement speed; and
 - (G) selecting said second speed as said movement speed if said first speed is slower than a predetermined speed.
2. (Cancelled)
3. (Original) The method of claim 2, wherein said first cut-off frequency is 375 Hz, and said second cut-off frequency is 250 Hz.
4. (Original) The method of claim 3, wherein said predetermined speed is

120 km/hour.

5. (Original) The method of claim 2, wherein said first cut-off frequency is 250 Hz, and said second cut-off frequency is 125 Hz.

6. (Original) The method of claim 5, wherein said predetermined speed is 60 km/hour.

7. (Original) The method of claim 2, wherein said first cut-off frequency is 125 Hz, and said second cut-off frequency is 62.5 Hz.

8. (Original) The method of claim 7, wherein said predetermined speed is 30 km/hour.

9. (Currently amended) A system for estimating a movement speed of a mobile unit, comprising:

a receiving unit for receiving a signal corresponding to a transmitting signal of said mobile unit;

a first filter unit for filtering said signal to generate a first signal, said first filter unit having a first cut-off frequency, said first filter unit corresponding to a first speed zone;

a second filter unit for filtering said signal to generate a second signal, said second filter unit having a second cut-off frequency, said second filter unit corresponding to a second speed zone, a predetermined speed being located between a lower edge of the first of the first speed zone and a higher edge of the second speed zone;

an estimated unit for obtaining a first speed by estimating said movement speed based on said first signal, and obtaining a second speed by estimating said movement speed based on said second signal; and

a selecting unit for selecting ~~one of said first speed and said second speed to be said movement speed~~ said second speed as said movement speed if said first speed is slower than said determined speed.

10-11. (Canceled)

12. (Original) The system of claim 11, wherein said first cut-off frequency is 375 Hz, and said second cut-off frequency is 250 Hz.

13. (Original) The system of claim 12, wherein said predetermined speed is 120 km/hour.

14. (Original) The system of claim 11, wherein said first cut-off frequency is 250 Hz, and said second cut-off frequency is 125 Hz.

15. (Original) The system of claim 14, wherein said predetermined speed is 60 km/hour.

16. (Original) The system of claim 11, wherein said first cut-off frequency is 125 Hz, and said second cut-off frequency is 62.5 Hz.

17. (Original) The system of claim 16, wherein said predetermined speed is 30 km/hour.

18. (Newly Added) The method of claim 1, wherein step (C) further comprises:

obtaining a first Doppler frequency according to the first signal; and
obtaining said first speed according to the first Doppler frequency.

19. (Newly Added) The method of claim 1, wherein step (E) further comprising:

obtaining a second Doppler frequency according to the second signal; and
obtaining said second speed according to the second Doppler frequency.